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        (FILE 'USPAT' ENTERED AT 14:24:42 ON 14 MAY 96)
L1          33 S ULTRASO? SCANNER# AND 364/CLAS
L2           8 S L1 AND EVALUAT?
L3         414 S ULTRASO? SCANNER#
L4         194 S L3 AND (EVALUAT? OR CALIBRAT? OR TEST?)
L5           5 S L4 AND PHANTOM (5A) TEST
L6          46 S L4 AND SOFTWARE#
L7          24 S L6 AND UNIFORM?
L8           7 S L7 AND (CYST# OR TUMOR#)
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381

359 /110 / 102 / 103

356   364/525

204 /157.15

> d 1-12

1. 5,454,717, Oct. 3, 1995, Custom orthodontic brackets and bracket forming method and apparatus; Craig A. Andreiko, et al., 433/24 [IMAGE AVAILABLE]

2. 5,447,432, Sep. 5, 1995, Custom orthodontic archwire forming method and apparatus; Craig A. Andreiko, et al., 433/24 [IMAGE AVAILABLE]

3. 5,431,562, Jul. 11, 1995, Method and apparatus for designing and forming a custom orthodontic appliance and for the straightening of teeth therewith; Craig A. Andreiko, et al., 433/24 [IMAGE AVAILABLE]

4. 5,368,478, Nov. 29, 1994, Method for forming jigs for custom placement of orthodontic appliances on teeth; Craig A. Andreiko, et al., 433/24; 364/413.28; 433/3 [IMAGE AVAILABLE]

5. 4,974,461, Dec. 4, 1990, Anthropomorphic cardiac ultrasound **phantom**; Stephen W. Smith, et al., 73/865.6, 1DV; 434/268 [IMAGE AVAILABLE]

6. 4,949,310, Aug. 14, 1990, Maltese cross **processor**: a high speed compound acoustic imaging system; Stephen W. Smith, et al., 367/7; 73/628; 128/660.01 [IMAGE AVAILABLE]

7. 4,913,159, Apr. 3, 1990, Method for determining blood flow through a narrowed orifice using color doppler echocardiography; Julius M. Gardin, et al., 128/661.1; 73/861.25 [IMAGE AVAILABLE]

8. 4,894,013, Jan. 16, 1990, Anthropomorphic cardiac ultrasound **phantom**; Stephen W. Smith, et al., 434/268; 73/866.4 [IMAGE AVAILABLE]

9. 4,385,634, May 31, 1983, Radiation-induced thermoacoustic imaging; Theodore Bowen, 128/653.1; 73/643; 128/659, 660.01, 736 [IMAGE AVAILABLE]

10. 4,325,256, Apr. 20, 1982, Optical bichromatic position finder; Michael Horn, 73/607, 618, 633 [IMAGE AVAILABLE]

11. 4,321,830, Mar. 30, 1982, Optical bichromatic position finder; Michael Horn, 73/607, 618, 633; 364/559 [IMAGE AVAILABLE]

12. 4,275,596, Jun. 30, 1981, Optical bichromatic position finder; Michael Horn, 73/607, 618, 633 [IMAGE AVAILABLE]

2. 5,463,593, Oct. 31, 1995, Apparatus for quantitative measurements of ultrasonic wave power distribution; Claudio I. Zanelli, et al., 367/13
   [IMAGE AVAILABLE]

1. 5,385,147, Jan. 31, 1995, Method of ultrasonic imaging of the gastrointestinal tract and upper abdominal organs using an orally administered negative contrast medium; Leslie D. Anderson, et al., 128/662.02 [IMAGE AVAILABLE]

2.) 5,339,282, Aug. 16, 1994, Resolution enhancement for ultrasonic reflection mode imaging; Paul K. Kuhn, et al., 367/7, 902 [IMAGE AVAILABLE]

3. 4,974,461, Dec. 4, 1990, Anthropomorphic cardiac ultrasound phantom; Stephen W. Smith, et al., 73/865.6, 1DV; 434/268 [IMAGE AVAILABLE]

4. 4,894,013, Jan. 16, 1990, Anthropomorphic cardiac ultrasound phantom; Stephen W. Smith, et al., 434/268; 73/866.4 [IMAGE AVAILABLE]

5.) 4,331,021, May 25, 1982, Contrast resolution tissue equivalent ultrasound **test** object; Hector Lopez, et al., 73/1DV [IMAGE AVAILABLE]
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       (FILE 'USPAT' ENTERED AT 14:24:42 ON 14 MAY 96)
L1   33 S ULTRASO? SCANNER# AND 364/CLAS
L2   8 S L1 AND EVALUAT?
L3   414 S ULTRASO? SCANNER#
L4   194 S L3 AND (EVALUAT? OR CALIBRAT? OR TEST?)
L5   5 S L4 AND PHANTOM (5A) TEST
=>

1. 5,391,139, Feb. 21, 1995, Real time radiation treatment planning system; Gregory K. Edmundson, 600/7; **364/413.26**; 600/3 [IMAGE AVAILABLE]

2. 5,384,861, Jan. 24, 1995, Multi-parameter image display with real time interpolation; Rodney A. Mattson, et al., 382/131; **364/413.13**, **413.17** [IMAGE AVAILABLE]

3. 5,368,478, Nov. 29, 1994, Method for forming jigs for custom placement of orthodontic appliances on teeth; Craig A. Andreiko, et al., 433/24; **364/413.28**; 433/3 [IMAGE AVAILABLE]

4. 5,367,318, Nov. 22, 1994, Method and apparatus for the simultaneous display of one or more selected images; Raymond A. Beaudin, et al., 345/201, 185; **364/413.22** [IMAGE AVAILABLE]

5. 5,339,815, Aug. 23, 1994, Methods and apparatus for analyzing an ultrasonic image of an animal or carcass; Yujun Liu, et al., 128/660.01, 660.07; **364/413.25** [IMAGE AVAILABLE]

6. 5,331,964, Jul. 26, 1994, Ultrasonic phased array imaging system with high speed adaptive processing using selected elements; Gregg E. Trahey, et al., 128/661.01, 660.07; **364/413.25** [IMAGE AVAILABLE]

7. RE 34,566, Mar. 22, 1994, Three-dimensional imaging system; Robert S. Ledley, 128/660.07; 73/621, 624, 626; 128/916; 348/46; **364/413.25** [IMAGE AVAILABLE]

8. 5,260,871, Nov. 9, 1993, Method and apparatus for diagnosis of breast tumors; Victor Goldberg, **364/413.02**, **413.01**, **413.13**; 382/128, 157 [IMAGE AVAILABLE]

9. 5,250,933, Oct. 5, 1993, Method and apparatus for the simultaneous display of one or more selected images; Raymond A. Beaudin, et al., 345/115, 185; 348/163; **364/413.22** [IMAGE AVAILABLE]

10. 5,208,747, May 4, 1993, Ultrasonic scanning method and apparatus for grading of live animals and animal carcases; John Wilson, et al., **364/413.25**; 128/660.07 [IMAGE AVAILABLE]

11. 5,172,343, Dec. 15, 1992, Aberration correction using beam data from a phased array **ultrasonic** **scanner**; Matthew O'Donnell, 367/7; 73/626; 128/661.01; **364/413.25**; 367/11, 103, 105 [IMAGE AVAILABLE]

12. 5,163,013, Nov. 10, 1992, Device for measurement of ultrasonic transit times; Rudiger Herzer, et al., **364/563**, **569**; 377/20

[IMAGE AVAILABLE]

13. 5,098,426, Mar. 24, 1992, Method and apparatus for precision laser surgery; H. Alfred Sklar, et al., 606/5; 128/630; 219/121.6, 121.62, 121.85; 351/209; **364/413.02**, **413.13**; 606/4, 10, 13 [IMAGE AVAILABLE]

14. 4,982,339, Jan. 1, 1991, High speed texture discriminator for ultrasonic imaging; Michael F. Insana, et al., **364/507**; 73/599, 602; 128/660.01; **364/413.25** [IMAGE AVAILABLE]

15. 4,939,646, Jul. 3, 1990, Method for representing digitized image data; Jacques R. Essinger, et al., **364/413.22**, **413.13**; 378/901; 382/128 [IMAGE AVAILABLE]

16. 4,937,767, Jun. 26, 1990, Method and apparatus for adjusting the intensity profile of an ultrasound beam; Jorg Reuschel, et al., **364/570**; 73/609, 646; 367/103, 105, 138, 155 [IMAGE AVAILABLE]

17. 4,920,573, Apr. 24, 1990, Method for generating perpendicular synthesized cross-sectional images; Michael L. Rhodes, et al., 382/131; **364/413.19**, **413.22**, **413.28**; 378/21, 38, 40, 901; 382/242 [IMAGE AVAILABLE]

18. 4,881,177, Nov. 14, 1989, Ultrasonic scanning system; James H. McClean, et al., 395/93; 73/619, 634; **364/474.37**; 382/151; 901/44, 47 [IMAGE AVAILABLE]

19. 4,817,015, Mar. 28, 1989, High speed texture discriminator for ultrasonic imaging; Michael F. Insana, et al., **364/507**; 73/599, 602; 128/660.01; **364/413.25** [IMAGE AVAILABLE]

20. 4,751,846, Jun. 21, 1988, Reducing noise in ultrasonic images; Bruno Dousse, 73/602; 348/163; **364/413.25**, **724.05** [IMAGE AVAILABLE]

21. 4,747,411, May 31, 1988, Three-dimensional imaging system; Robert S. Ledley, 128/660.07; 73/621, 624, 626; 128/916; 348/42, 163; **364/413.25** [IMAGE AVAILABLE]

22. 4,722,056, Jan. 26, 1988, Reference display systems for superimposing a tomographic image onto the focal plane of an operating microscope; David W. Roberts, et al., **364/413.22**; 128/653.1; 606/130 [IMAGE AVAILABLE]

23. 4,528,651, Jul. 9, 1985, Method and apparatus for measurement of length and height of objects; Gregory K. Brock, et al., 367/99; **364/562**; 367/96, 107 [IMAGE AVAILABLE]

24. 4,471,449, Sep. 11, 1984, Scan converter system; Steven C. Leavitt, et al., **364/577**; 73/620; 348/163, 441; **364/514A** [IMAGE AVAILABLE]

25. 4,449,199, May 15, 1984, Ultrasound scan conversion and memory system; Ronald E. Daigle, 395/164; **364/920**, **920.7**, **926.1**, **926.3**, **927.1**, **929.1**, **932**, **932.62**, **939**, **939.2**, **940**, **942**, **951.1**, **951.4**, **957**, **957.1**, **960**, **960.6**, **963**, **963.2**, **964**, **964.7**, **966.1**, **966.3**, **966.4**, **DIG.2** [IMAGE AVAILABLE]

26. 4,375,671, Mar. 1, 1983, Method and means for filtering and updating pixel data; Gary L. Engle, 367/11; 348/163; **364/413.25** [IMAGE AVAILABLE]

27. 4,356,731, Nov. 2, 1982, Method and means for generating time gain compensation control signal for use in **ultrasonic** **scanner** and the like; John E. Mahony, 73/631, 900; **364/571.04** [IMAGE AVAILABLE]

28. 4,321,830, Mar. 30, 1982, Optical bichromatic position finder; Michael Horn, 73/607, 618, 633; **364/559** [IMAGE AVAILABLE]

29. RE 30,397, Sep. 9, 1980, Three-dimensional ultrasonic imaging of animal soft tissue; Donald L. King, 128/660.07, 916; **364/413.22**, **413.25** [IMAGE AVAILABLE]

30. 4,206,654, Jun. 10, 1980, Video display control for diagnostic scanners; John T. Keller, et al., 73/620; 128/660.07; **364/413.22**, **413.25** [IMAGE AVAILABLE]

31. 4,140,022, Feb. 20, 1979, Acoustic imaging apparatus; Samuel H. Maslak, 73/626; **364/413.25**; 367/7, 103 [IMAGE AVAILABLE]

32. 4,075,883, Feb. 28, 1978, Ultrasonic fan beam scanner for computerized time-of-flight tomography; Gary H. Glover, 73/607, 602, 618; 128/661.02; **364/413.25**; 378/17, 37, 208 [IMAGE AVAILABLE]

33. 3,573,449, Apr. 6, 1971, OPTICAL PULSE EXPANSION SYSTEM; William T. Maloney, **364/822**; 250/225; 324/76.36; 359/285 [IMAGE AVAILABLE]

1. 5,368,478, Nov. 29, 1994, Method for forming jigs for custom placement of orthodontic appliances on teeth; Craig A. Andreiko, et al., 433/24; **364/413.28**; 433/3 [IMAGE AVAILABLE]

2. 5,339,815, Aug. 23, 1994, Methods and apparatus for analyzing an ultrasonic image of an animal or carcass; Yujun Liu, et al., 128/660.01, 660.07; **364/413.25** [IMAGE AVAILABLE]

3. 5,260,871, Nov. 9, 1993, Method and apparatus for diagnosis of breast tumors; Victor Goldberg, **364/413.02**, **413.01**, **413.13**; 382/128, 157 [IMAGE AVAILABLE]

4. 5,208,747, May 4, 1993, Ultrasonic scanning method and apparatus for grading of live animals and animal carcases; John Wilson, et al., **364/413.25**; 128/660.07 [IMAGE AVAILABLE]

5. 5,163,013, Nov. 10, 1992, Device for measurement of ultrasonic transit times; Rudiger Herzer, et al., **364/563**, **569**; 377/20 [IMAGE AVAILABLE]

6. 4,751,846, Jun. 21, 1988, Reducing noise in ultrasonic images; Bruno Dousse, 73/602; 348/163; **364/413.25**, **724.05** [IMAGE AVAILABLE]

7. 4,321,830, Mar. 30, 1982, Optical bichromatic position finder; Michael Horn, 73/607, 618, 633; **364/559** [IMAGE AVAILABLE]

8. RE 30,397, Sep. 9, 1980, Three-dimensional ultrasonic imaging of animal soft tissue; Donald L. King, 128/660.07, 916; **364/413.22**, **413.25** [IMAGE AVAILABLE]

EDS MAYA Classification Report for 451035.rpt.

Top Referenced Classes:

1. 358/403   Total=5 ORs=3 XRs=2
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 400   FACSIMILE
   Sub 403   .Document filing and retrieval system

2. 358/444   Total=5 ORs=2 XRs=3
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 400   FACSIMILE
   Sub 443   .Specific signal processing circuitry
   Sub 444   ..Memory interface

3. 358/448   Total=5 ORs=0 XRs=5
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 400   FACSIMILE
   Sub 443   .Specific signal processing circuitry
   Sub 448   ..Image processing

4. 358/524   Total=4 ORs=0 XRs=4
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 500   NATURAL COLOR FACSIMILE
   Sub 524   .Intermediate storage

5. 358/527   Total=4 ORs=3 XRs=1
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 500   NATURAL COLOR FACSIMILE
   Sub 527   .Color photography previewer

6. 364/413.22   Total=4 ORs=0 XRs=4
   Class 364   ELECTRICAL COMPUTERS AND DATA PROCESSING SYSTEMS
   Sub 400   APPLICATIONS
   Sub 413.01   .Life sciences
   Sub 413.13   ..Medical imaging
   Sub 413.14   ...Computed tomography using X-ray
   Sub 413.22   ....Image display

7. 382/132   Total=4 ORs=4 XRs=0
   Class 382   IMAGE ANALYSIS
   Sub 100   APPLICATIONS
   Sub 128   .Biomedical applications
   Sub 132   ..X-ray film analysis (e.g., radiography)

8. 395/131   Total=4 ORs=1 XRs=3
   Class 395   INFORMATION PROCESSING SYSTEM ORGANIZATION
   Sub 100   DATA PRESENTATION/COMPUTER GRAPHICS (E.G., IMAGE,
                GRAPHICS, TEXT)
   Sub 118   .Presentation processing
   Sub 129   ..Surface detail/characteristic
   Sub 131   ...Color

9. 358/404   Total=3 ORs=1 XRs=2

Class 358 FACSIMILE OR TELEVISION RECORDING
Sub 400 FACSIMILE
Sub 404 .Facsimile memory monitoring

10. 358/426 Total=3 ORs=0 XRs=3
Class 358 FACSIMILE OR TELEVISION RECORDING
Sub 400 FACSIMILE
Sub 426 .Time or bandwidth compression

11. 358/450 Total=3 ORs=1 XRs=2
Class 358 FACSIMILE OR TELEVISION RECORDING
Sub 400 FACSIMILE
Sub 443 .Specific signal processing circuitry
Sub 448 ..Image processing
Sub 450 ...Plural images combined into a single image

12. 358/468 Total=3 ORs=0 XRs=3
Class 358 FACSIMILE OR TELEVISION RECORDING
Sub 400 FACSIMILE
Sub 443 .Specific signal processing circuitry
Sub 468 ..Facsimile control unit

13. 364/413.13 Total=3 ORs=1 XRs=2
Class 364 ELECTRICAL COMPUTERS AND DATA PROCESSING SYSTEMS
Sub 400 APPLICATIONS
Sub 413.01 .Life sciences
Sub 413.13 ..Medical imaging

14. 364/413.19 Total=3 ORs=0 XRs=3
Class 364 ELECTRICAL COMPUTERS AND DATA PROCESSING SYSTEMS
Sub 400 APPLICATIONS
Sub 413.01 .Life sciences
Sub 413.13 ..Medical imaging
Sub 413.14 ...Computed tomography using X-ray
Sub 413.19 ....Particular image reconstruction technique

15. 364/DIG. 2 Total=3 ORs=0 XRs=3
Class 364 ELECTRICAL COMPUTERS AND DATA PROCESSING SYSTEMS
Sub DIG. 2 GENERAL PURPOSE PROGRAMMABLE DIGITAL COMPUTER
SYSTEMS

16. 348/130 Total=2 ORs=0 XRs=2
Class 348 TELEVISION
Sub 61 SPECIAL APPLICATIONS
Sub 125 .Flaw detector
Sub 129 ..By comparison with reference object
Sub 130 ...With stored representation of reference object

17. 356/243 Total=2 ORs=0 XRs=2
Class 356 OPTICS: MEASURING AND TESTING
Sub 243 STANDARDS

18. 356/371 Total=2 ORs=0 XRs=2
Class 356 OPTICS: MEASURING AND TESTING
Sub 371 FOR FLATNESS

19. 356/376   Total=2   ORs=2   XRs=0
    Class 356   OPTICS: MEASURING AND TESTING
    Sub 372   BY MENSURATION
    Sub 376   .Of contour or profile

20. 358/296   Total=2   ORs=1   XRs=1
    Class 358   FACSIMILE OR TELEVISION RECORDING
    Sub 400   FACSIMILE
    Sub 296   .Recording apparatus

21. 358/406   Total=2   ORs=0   XRs=2
    Class 358   FACSIMILE OR TELEVISION RECORDING
    Sub 400   FACSIMILE
    Sub 406   .Facsimile measuring, testing, or calibrating

22. 358/408   Total=2   ORs=0   XRs=2
    Class 358   FACSIMILE OR TELEVISION RECORDING
    Sub 400   FACSIMILE
    Sub 408   .Plural scanner station

23. 358/449   Total=2   ORs=0   XRs=2
    Class 358   FACSIMILE OR TELEVISION RECORDING
    Sub 400   FACSIMILE
    Sub 443   .Specific signal processing circuitry
    Sub 448   ..Image processing
    Sub 449   ...Document size detection

24. 358/451   Total=2   ORs=1   XRs=1
    Class 358   FACSIMILE OR TELEVISION RECORDING
    Sub 400   FACSIMILE
    Sub 443   .Specific signal processing circuitry
    Sub 448   ..Image processing
    Sub 451   ...Picture size conversion

25. 358/452   Total=2   ORs=0   XRs=2
    Class 358   FACSIMILE OR TELEVISION RECORDING
    Sub 400   FACSIMILE
    Sub 443   .Specific signal processing circuitry
    Sub 448   ..Image processing
    Sub 452   ...Image editing

26. 358/462   Total=2   ORs=1   XRs=1
    Class 358   FACSIMILE OR TELEVISION RECORDING
    Sub 400   FACSIMILE
    Sub 443   .Specific signal processing circuitry
    Sub 448   ..Image processing
    Sub 462   ...Text and image detection and processing

27. 358/467   Total=2   ORs=0   XRs=2
    Class 358   FACSIMILE OR TELEVISION RECORDING
    Sub 400   FACSIMILE
    Sub 443   .Specific signal processing circuitry
    Sub 448   ..Image processing
    Sub 467   ...Image classification and coding

28. 358/487   Total=2   ORs=1   XRs=1
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 400   FACSIMILE
   Sub 471   .Picture signal generator
   Sub 474   ..Scanning
   Sub 487   ...Facsimile transparency image scanning

29. 358/500   Total=2   ORs=0   XRs=2
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 500   NATURAL COLOR FACSIMILE

30. 358/501   Total=2   ORs=1   XRs=1
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 500   NATURAL COLOR FACSIMILE
   Sub 501   .Image reproduction

31. 358/518   Total=2   ORs=0   XRs=2
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 500   NATURAL COLOR FACSIMILE
   Sub 518   .Color correction

32. 358/540   Total=2   ORs=1   XRs=1
   Class 358   FACSIMILE OR TELEVISION RECORDING
   Sub 500   NATURAL COLOR FACSIMILE
   Sub 530   .Specific image-processing circuitry
   Sub 540   ..Composite image

33. 364/920.7   Total=2   ORs=0   XRs=2
   Class 364   ELECTRICAL COMPUTERS AND DATA PROCESSING SYSTEMS
   Sub ???.17 APPLICATIONS
   Sub 920.7   .Image processing

34. 364/952.31   Total=2   ORs=0   XRs=2
   Class 364   ELECTRICAL COMPUTERS AND DATA PROCESSING SYSTEMS
   Sub ???.23 SPECIFIC STORAGE ELEMENT
   Sub 952   .Dynamic
   Sub 952.31 ..Optical

35. 378/207   Total=2   ORs=1   XRs=1
   Class 378   X-RAY OR GAMMA RAY SYSTEMS OR DEVICES
   Sub 204   ACCESSORY
   Sub 207   .Testing or calibration

36. 382/254   Total=2   ORs=0   XRs=2
   Class 382   IMAGE ANALYSIS
   Sub 254   IMAGE ENHANCEMENT OR RESTORATION

37. 382/274   Total=2   ORs=0   XRs=2
   Class 382   IMAGE ANALYSIS
   Sub 254   IMAGE ENHANCEMENT OR RESTORATION
   Sub 274   .Intensity, brightness, contrast, or shading
          correction

38. 382/305   Total=2   ORs=1   XRs=1

Class 382   IMAGE ANALYSIS
   Sub 276   IMAGE TRANSFORMATION OR PREPROCESSING
   Sub 305   .Image storage or retrieval

39. 395/106   Total=2   ORs=1   XRs=1
   Class 395   INFORMATION PROCESSING SYSTEM ORGANIZATION
   Sub 100   DATA PRESENTATION/COMPUTER GRAPHICS (E.G., IMAGE,
       GRAPHICS, TEXT)
   Sub 101   .Static presentation processing (e.g., for printers)
   Sub 106   ..Specific to image source